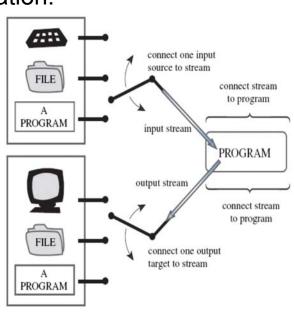
Chapter 8: IO Library

IO: Basic Concept

- streams I/O uses the concept of streams a flow of characters. streams may flow into or out of files or console. They can also flow into and out of strings. C++ tries to offer the same set of commands whatever the nature of the source and destination.
 - state Each stream has state information indicating whether an error has occurred, etc.
 - buffer Default is ok.
 - locale Default is ok.



IO Library

Table 8.1. IO Library Types and Headers

Header	Туре
iostream	istream reads from a stream
	ostream writes to a stream
	iostream reads and writes a stream; derived from istream and ostream,
fstream	ifstream, reads from a file; derived from istream
	ofstream writes to a file; derived from ostream
	fstream, reads and writes a file; derived from iostream
sstream	istringstream reads from a string; derived from istream
	ostringstream writes to a string; derived from ostream
	stringstream reads and writes a string; derived from iostream
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String Stream

- In-memory input/output: a stream is attached to a string within the program's memory.
- That string can be written to and read from using the iostream input and output operators.

Header	Туре
sstream	istringstream reads from a string; derived from istream
	ostringstream writes to a string; derived from ostream
	stringstream reads and writes a string; derived from iostream

Sample usage, see note

Until Next Time

- Lab ...
- First midterm starts at **6:00 pm** on Thurs, **October 16**, 2014.
- [Reading] Chapter 9.